

Piedmont Regional Office
JUN 03 2013
RECEIVED

LAND APPLICATION OF BIOSOLIDS

JOHN N MILLS

KW 03 (FIELDS 1-15, 17-19) —

KING WILLIAM COUNTY, VIRGINIA

AUGUST 2011



A Residuals Management Company

August 24, 2011

Mr. Scott Haley
Dept of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

Dear Mr. Haley:

Transmitted herein for your consideration is land application site for J.N. Mills (designated as KW 3, fields (1-19), located in King William County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

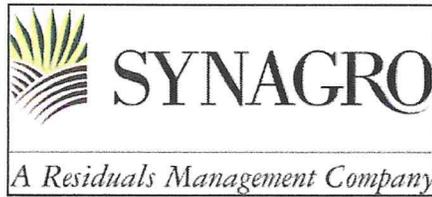
A handwritten signature in black ink, appearing to read "Chris Sylva".

Chris Sylva
Technical Services Manager

WCS/cmw

Synagro Central, LLC.

10647 Tidewater Trail, Champlain, VA 22438 * Ph: (804) 443-2170 * Fax (804) 443-2214



FIELD SUMMARY SHEET

John N. Mills

KW 3

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FSA FIELD #	TOPO QUAD	OWNER
1	103.3	102.8	9664		Hanover	John N. Mills & Sons
2	19.4	19.4	9664		Hanover	John N. Mills & Sons
3	64.4	62.9	9664		Hanover	John N. Mills & Sons
4A	24.7	24.6	9664		Hanover	John N. Mills & Sons
4B	15.3	15.2	9664		Hanover	John N. Mills & Sons
5	14.3	13.8	9664		Hanover	John N. Mills & Sons
6	7.8	7.8	9664		Hanover	John N. Mills & Sons
7	15.7	14.2	9664		Hanover	John N. Mills & Sons
8	17.7	15.7	9664		Hanover	John N. Mills & Sons
9	33.7	32.7	9664		Hanover	John N. Mills & Sons
10	44.5	44.0	9664		Hanover	John N. Mills & Sons
11	27.9	27.9	9664		Hanover	John N. Mills & Sons
12	353.6	352.6	9664		Hanover	John N. Mills & Sons
13	43.1	41.2	9664		Hanover	John N. Mills & Sons
14	10.0	9.2	9664		Hanover	John N. Mills & Sons
15	31.5	30.5	9664		Hanover	John N. Mills & Sons
17	57.2	48.3	9664		Hanover	H&F LLC.
18	15.1	12.1	9664		Hanover	John N. Mills & Sons
19	92.4	90.4	9664		Hanover	John N. Mills & Sons
TOTALS:	991.6	965.3				



A Residuals Management Company

VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: John N. Mills & Son, J. N. Mills partner PHONE: (804) 994-2966

ADDRESS: 5079 ETNA mills Rd Hanover VA 23069

FARM LOCATION: RT 614 & RT 604

FSA TRACT #: 10004, 10006, 2569 + 10005

TOTAL ACREAGE: 1911 COUNTY: King William

CROPS: Small grains, corn and beans

1. I agree to be responsible for adhering to the following conditions, where applicable:
 - a. The soil pH will be adjusted to > 6.0 when biosolids are applied. (This may be accomplished through the application of lime-treated biosolids.)
 - b. Do not graze animals on the land for 30 days after the application of biosolids. In addition, animals intended for dairy production should not be allowed to graze on the land or be fed chopped foliage for 60 days after the application of biosolids. Meat-producing livestock should not be fed chopped foliage for 30 days after the application of biosolids.
 - c. Food crops for direct human consumption that are above the land surface shall not be harvested for 14 months after the application of biosolids.
 - d. Food crops for direct human consumption with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface > 4 months prior to incorporation into the soil, or 38 months when the biosolids remain on the land surface < 4 months prior to incorporation.
 - e. Food crops, feed crops and fiber crops shall not be harvested for 30 days after application of biosolids.
 - f. Public access to land with a low potential for public exposure shall be restricted for 30 days. Public access to land with a high potential for public exposure shall be restricted for 1 year. No biosolids-amended soil shall be excavated or removed from the site for 30 days following the biosolids application unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols.
 - g. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
 - h. Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids applications such that the total crop needs for nutrients are not exceeded as identified on the nutrient balance sheet or the nutrient management plan approved by the Virginia Department of Conservation and Recreation to be supplied to the farm operator by Synagro at the time of application of biosolids to a specific permitted site.
 - i. Tobacco, because it has been shown to accumulate cadmium, should not be grown for three years following the application of biosolids-borne cadmium equal to or exceeding 0.45 lbs/acre.
2. I understand that this transaction is not contemplated by the parties to be a sale of goods, and that Synagro is willing to provide to me without charge the service of land applying biosolids which have been approved by the appropriate regulatory agencies for land application.
3. I understand that successful crop production depends on many variables, such as weather, soil conditions and specific farming practices and that while Synagro has experience with land application of biosolids, the responsibility for properly accommodating agricultural practices to biosolids utilization are solely mine. I have also read and understand the "Important Information About Using Biosolids as a Fertilizer" which is on the reverse side and incorporated by reference in this Request and Consent.

John N. Mills & Son, J. N. Mills partner
OPERATOR'S SIGNATURE

6-12-09
DATE

Synagro • 601 Caroline Street, #601 • Fredericksburg, VA 22401 • 540.371.9050

Permittee: Synagro

County or City: King William

Landowner: Geneva Mills

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

X Geneva H. Mills, Trustee
Landowner's Signature

5/25/13
Date

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro County or City: _____

Landowner: _____

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

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6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

He File by J. N. Miller
Landowner's Signature

5/23/13
Date

Landowner Site Management Requirements:

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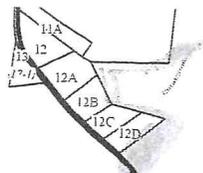
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 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
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6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

John A. Mills, Sons by J.A. Mills, Jr. partner
Landowner's Signature

5/28/13
Date

Tax ID Landowner Identification Sheet

Landowner	Field #	Tax ID
John N. Mills & Sons	1	17-3
John N. Mills & Sons	2	17-3
John N. Mills & Sons	3	17-3
John N. Mills & Sons	4A	17-3
John N. Mills & Sons	4B	17-3
John N. Mills & Sons	5	17-3
John N. Mills & Sons	6	17-3
John N. Mills & Sons	7	17-3
John N. Mills & Sons	8	17-3
John N. Mills & Sons	9	17-3
John N. Mills & Sons	10	17-3
John N. Mills & Sons	11	17-3
John N. Mills & Sons	12	17-3
John N. Mills & Sons	13	17-3
John N. Mills & Sons	14	17-3
John N. Mills & Sons	15	17-3
H&F LLC.	16	17-3,17-3B
H&F LLC.	17	17-3, 17-3B
John N. Mills & Sons	18	17-3
John N. Mills & Sons	19	17-3



Farm Summary Report

Farm Name: KW3

Soils:

PERCENT	SYMBOL	SOIL SERIES
61	2B	Bama
14	13B	Kempsville
11	10B	Emporia
10	26B	Slagle
3	22D	Nevarc Remlik
1	11B	Eulonia

Field Name: 02

Soils:

PERCENT	SYMBOL	SOIL SERIES
61	13B	Kempsville
20	2B	Bama
14	11B	Eulonia
3	10B	Emporia
2	22D	Nevarc Remlik

Field Name: 03

Soils:

PERCENT	SYMBOL	SOIL SERIES
49	13B	Kempsville
46	10B	Emporia
2	12A	Eunola
1	22D	Nevarc Remlik
2	26B	Slagle

Field Name: 04A

Soils:

PERCENT	SYMBOL	SOIL SERIES
64	12A	Eunola
23	10B	Emporia
6	18A	Myatt
6	13B	Kempsville
1	22D	Nevarc Remlik

Field Name: 04B

Soils:

PERCENT	SYMBOL	SOIL SERIES
45	22D	Nevarc Remlik
39	13B	Kempsville
6	10B	Emporia
6	30A	Tomotley
4	12A	Eunola

Field Name: 05

Soils:

PERCENT	SYMBOL	SOIL SERIES
36	10B	Emporia
34	12A	Eunola
22	10A	Emporia
6	18A	Myatt
2	22D	Nevarc Remlik

Field Name: 06

Soils:

PERCENT	SYMBOL	SOIL SERIES
30	10B	Emporia
23	18A	Myatt
19	26B	Slagle
14	22D	Nevarc Remlik
14	12A	Eunola

Field Name: 07

Soils:

PERCENT	SYMBOL	SOIL SERIES
60	10B	Emporia
33	22D	Nevarc Remlik
7	13B	Kempsville

Field Name: 08

Soils:

PERCENT	SYMBOL	SOIL SERIES
41	22D	Nevarc Remlik
43	13B	Kempsville
16	10B	Emporia

Field Name: 09

Soils:

PERCENT	SYMBOL	SOIL SERIES
31	10B	Emporia
30	22D	Nevarc Remlik
22	12A	Eunola
17	13B	Kempsville

Field Name: 10

Soils:

PERCENT	SYMBOL	SOIL SERIES
41	10B	Emporia
21	12A	Eunola
20	13B	Kempsville
9	2B	Bama
5	26B	Slagle
4	22D	Nevarc Remlik

Field Name: 11

Soils:

PERCENT	SYMBOL	SOIL SERIES
55	24A	Roanoke
35	22D	Nevarc Remlik
7	12B	Eunola
2	1A	Altavista
1	10B	Emporia

Field Name: 12

Soils:

PERCENT	SYMBOL	SOIL SERIES
56	1A	Altavista
20	27A	STATE1
14	24A	Roanoke
3	33A	Wickham
3	31B	Udorthents
2	1B	Altavista
1	22D	Nevarc Remlik
1	8A	Conetoe

Field Name: 13

Soils:

PERCENT	SYMBOL	SOIL SERIES
61	1A	Altavista
14	1B	Altavista
9	30A	Tomotley
8	8A	Conetoe
5	27A	STATE1
2	3A	Bibb Kinston
1	12B	Eunola

Field Name: 14

Soils:

PERCENT	SYMBOL	SOIL SERIES
73	12B	Eunola
21	22D	Nevarc Remlik
6	24A	Roanoke

Field Name: 15

Soils:

PERCENT	SYMBOL	SOIL SERIES
40	11A	Eulonia
26	1A	Altavista
18	27A	STATE1
8	6A	Bojac1
5	3A	Bibb Kinston
3	24A	Roanoke

Field Name: 16

Soils:

PERCENT	SYMBOL	SOIL SERIES
99	32A	Wehadkee
1	33B	Wickham

Field Name: 17

Soils:

PERCENT	SYMBOL	SOIL SERIES
71	32A	Wehadkee
23	1A	Altavista
6	33B	Wickham

Field Name: 18

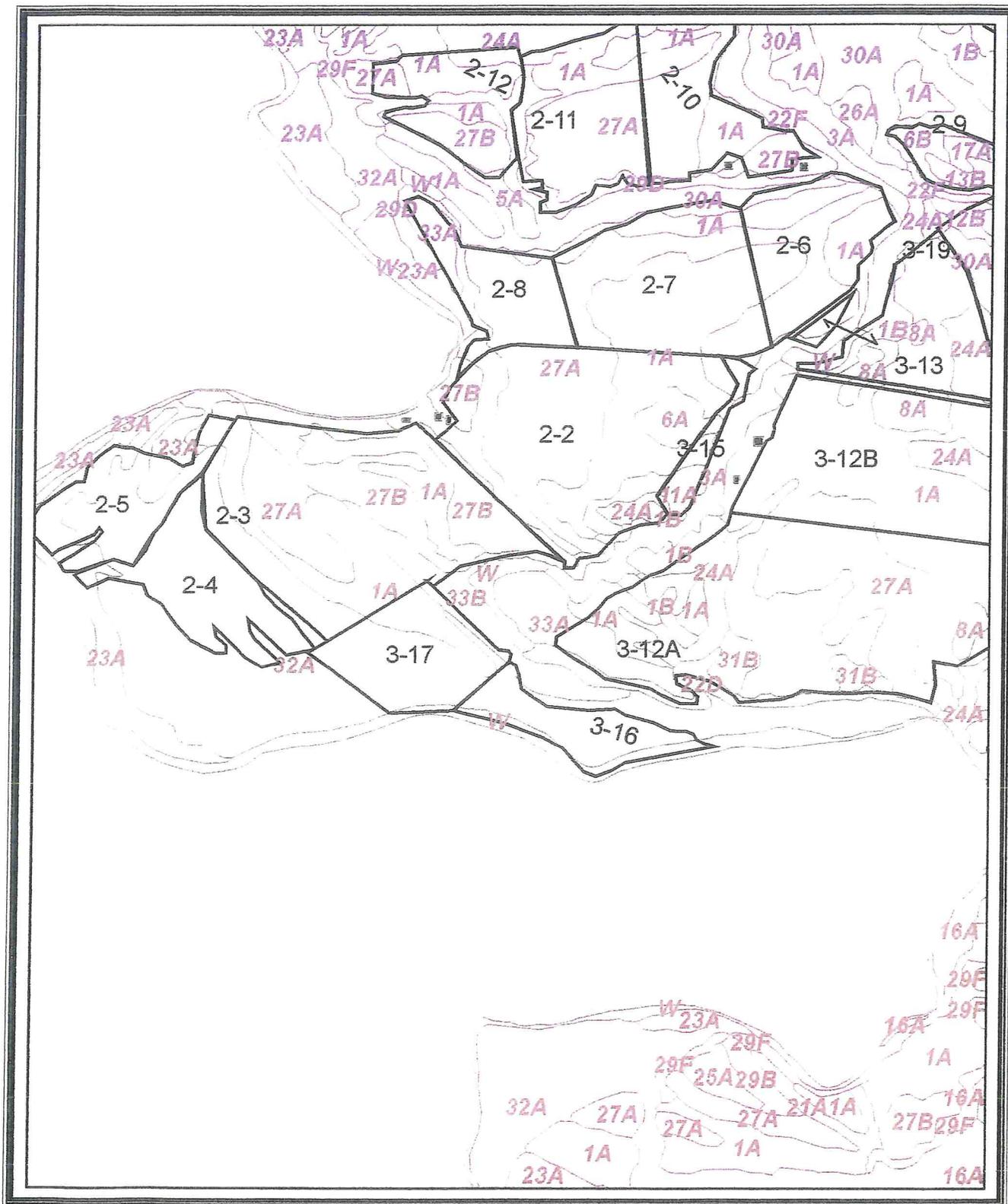
Soils:

PERCENT	SYMBOL	SOIL SERIES
85	13B	Kempsville
12	22D	Nevarc Remlik
2	26B	Slagle
1	10B	Emporia

Field Name: 19

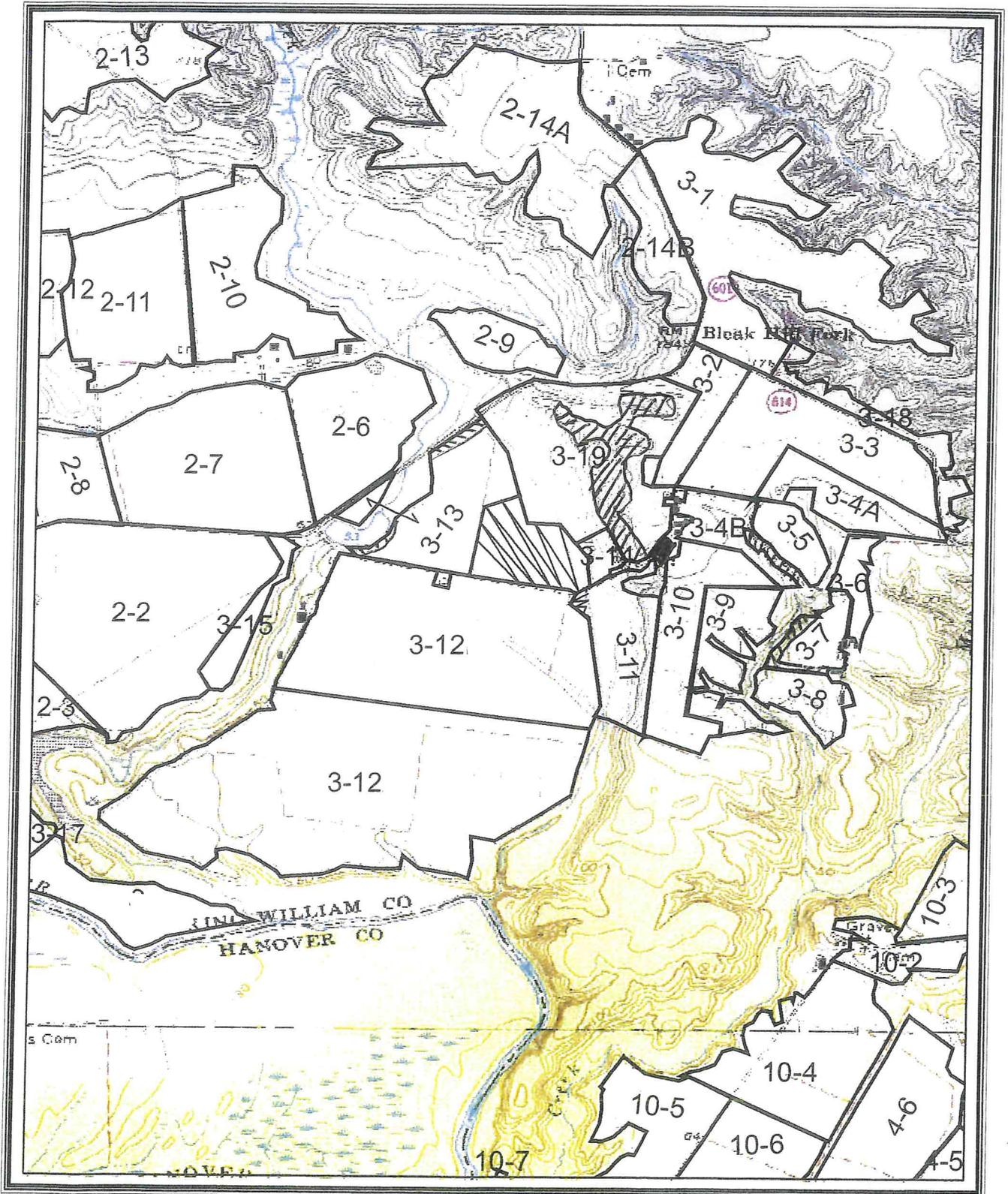
Soils:

PERCENT	SYMBOL	SOIL SERIES
40	22D	Nevarc Remlik
25	13B	Kempsville
20	30A	Tomotley
12	12B	Eunola
2	24A	Roanoke
1	11B	Eulonia



1 inch equals 2,000,000,000 feet

1:24,000



1 inch = 2,000 feet

1:24,000

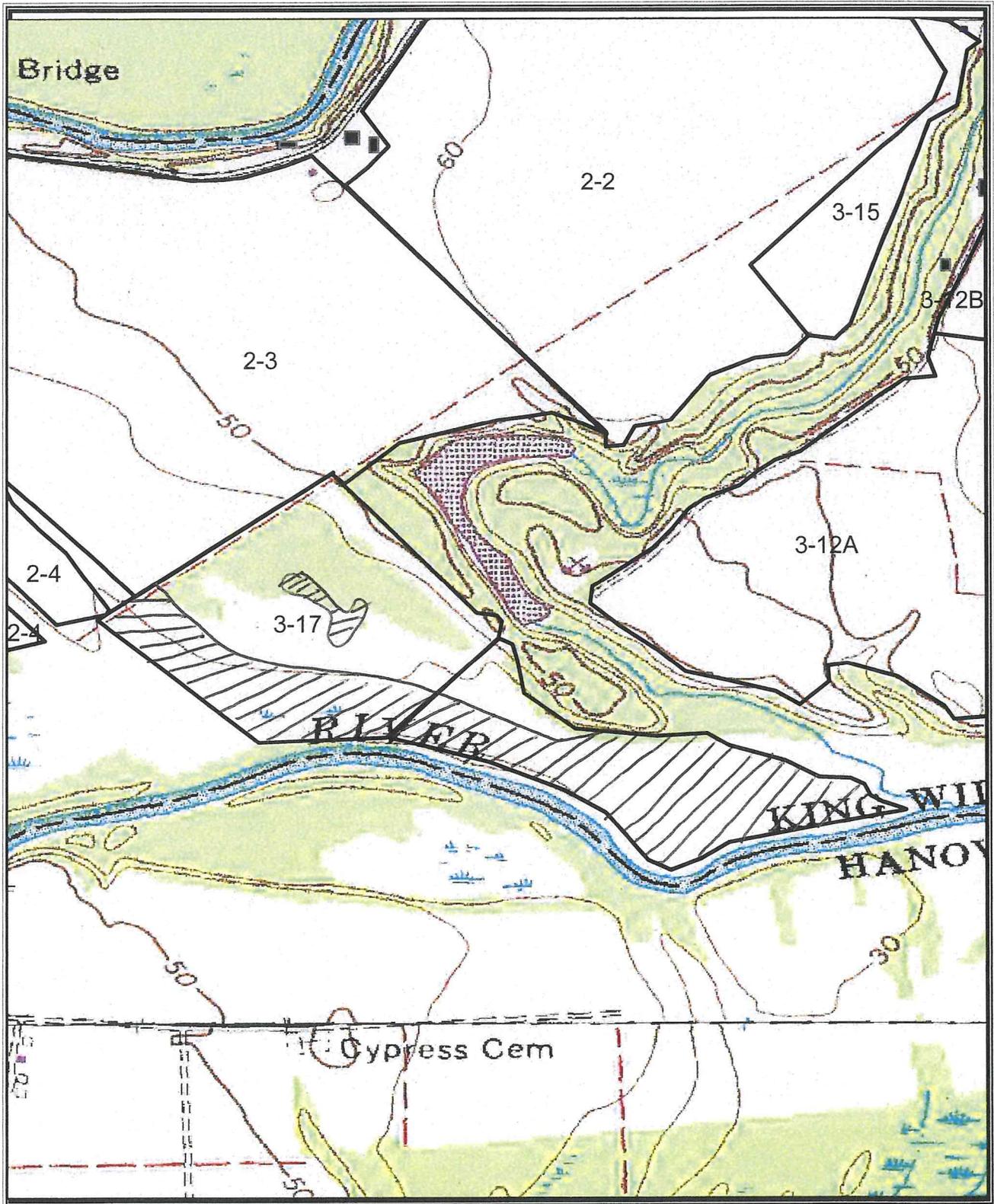


SYNAGRO

J.N.Mills

KW 3

A Residuals Management Company



1 inch = 1,000 feet

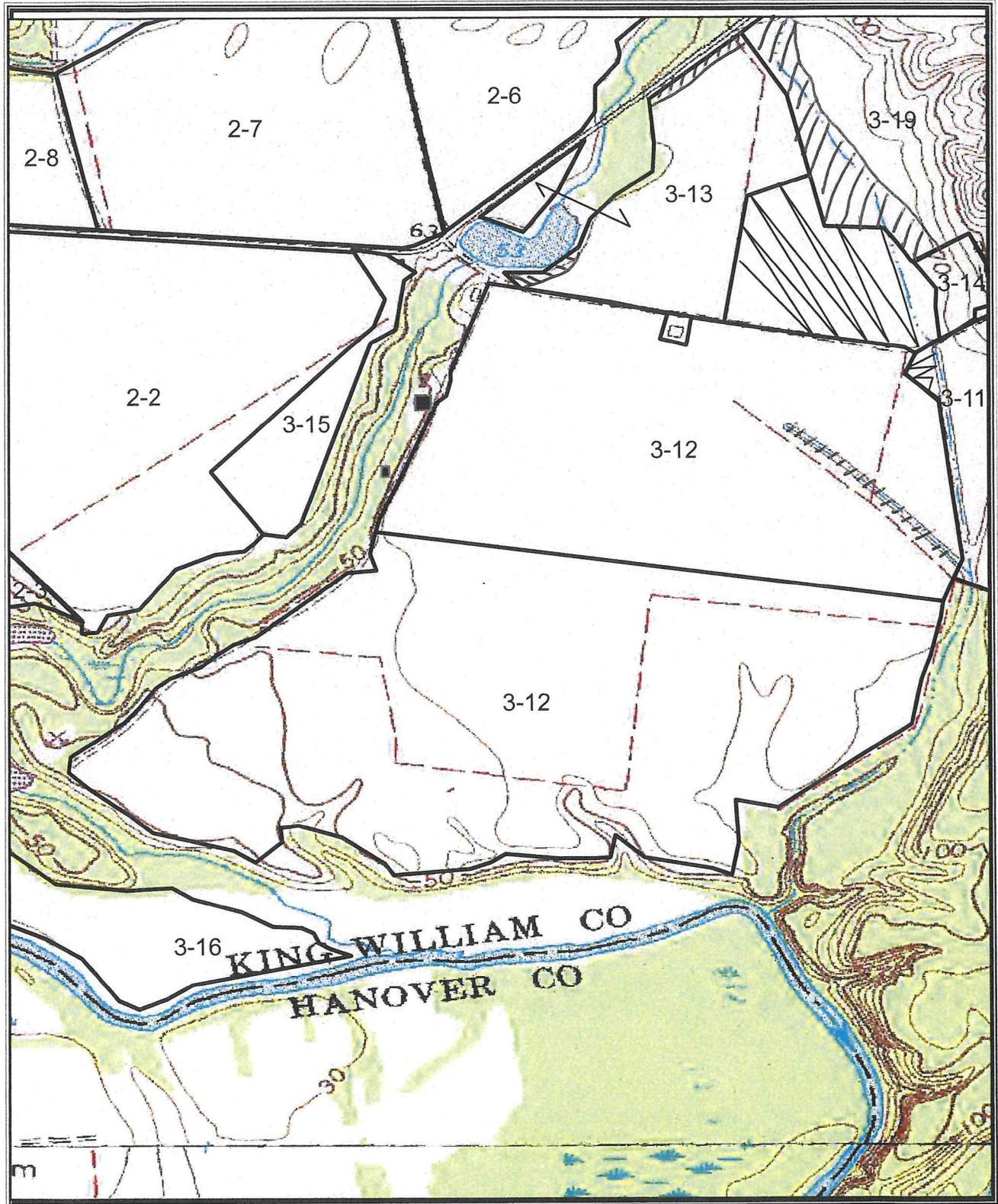
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SYNAGRO

J.N.Mills
KW 3

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1 inch = 1,125 feet

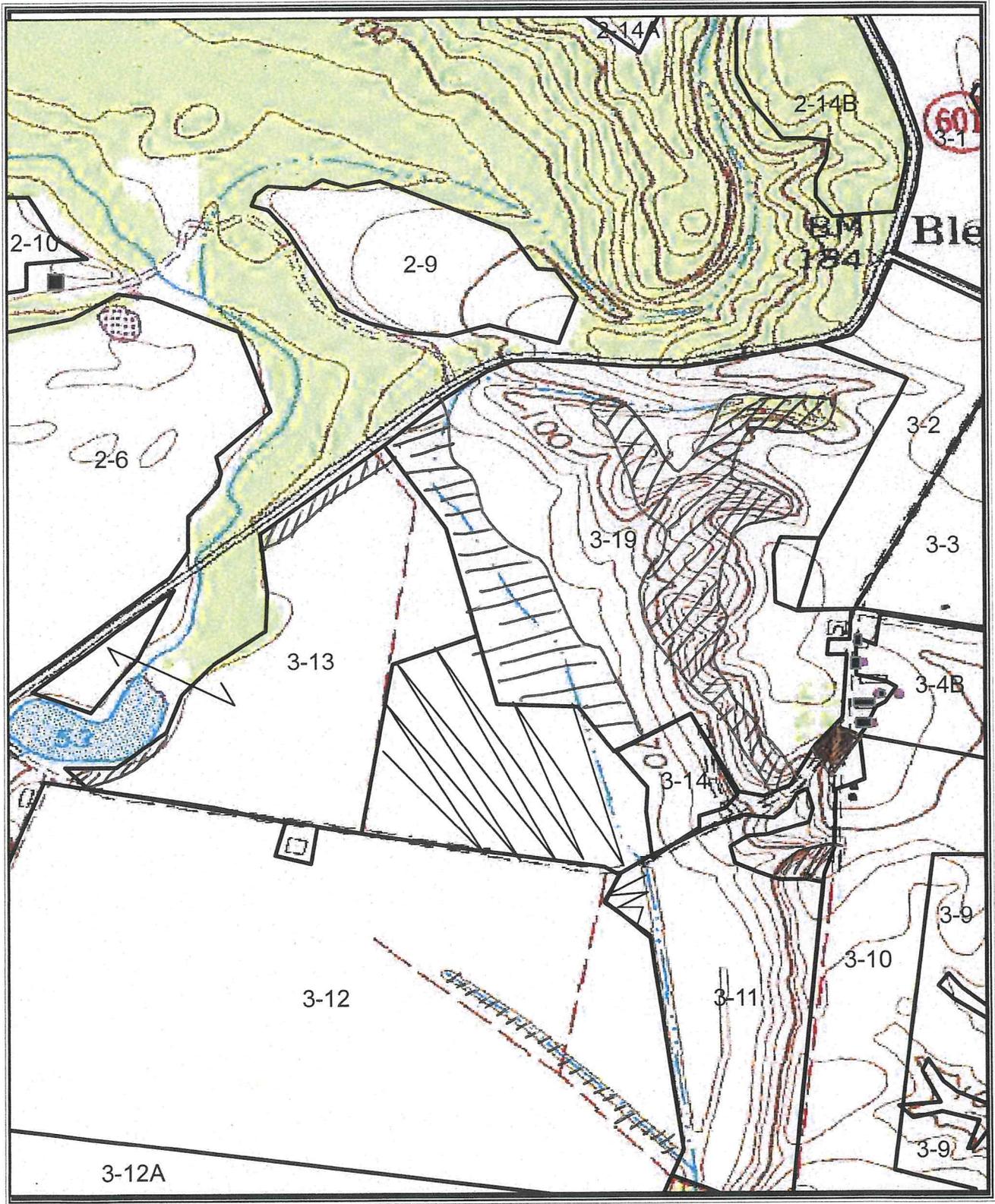
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SYNAGRO

J.N.Mills
KW 3

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1 inch = 833.333333 feet

1:10,000



SYNAGRO

J.N.Mills
KW 3

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1 inch = 660 feet

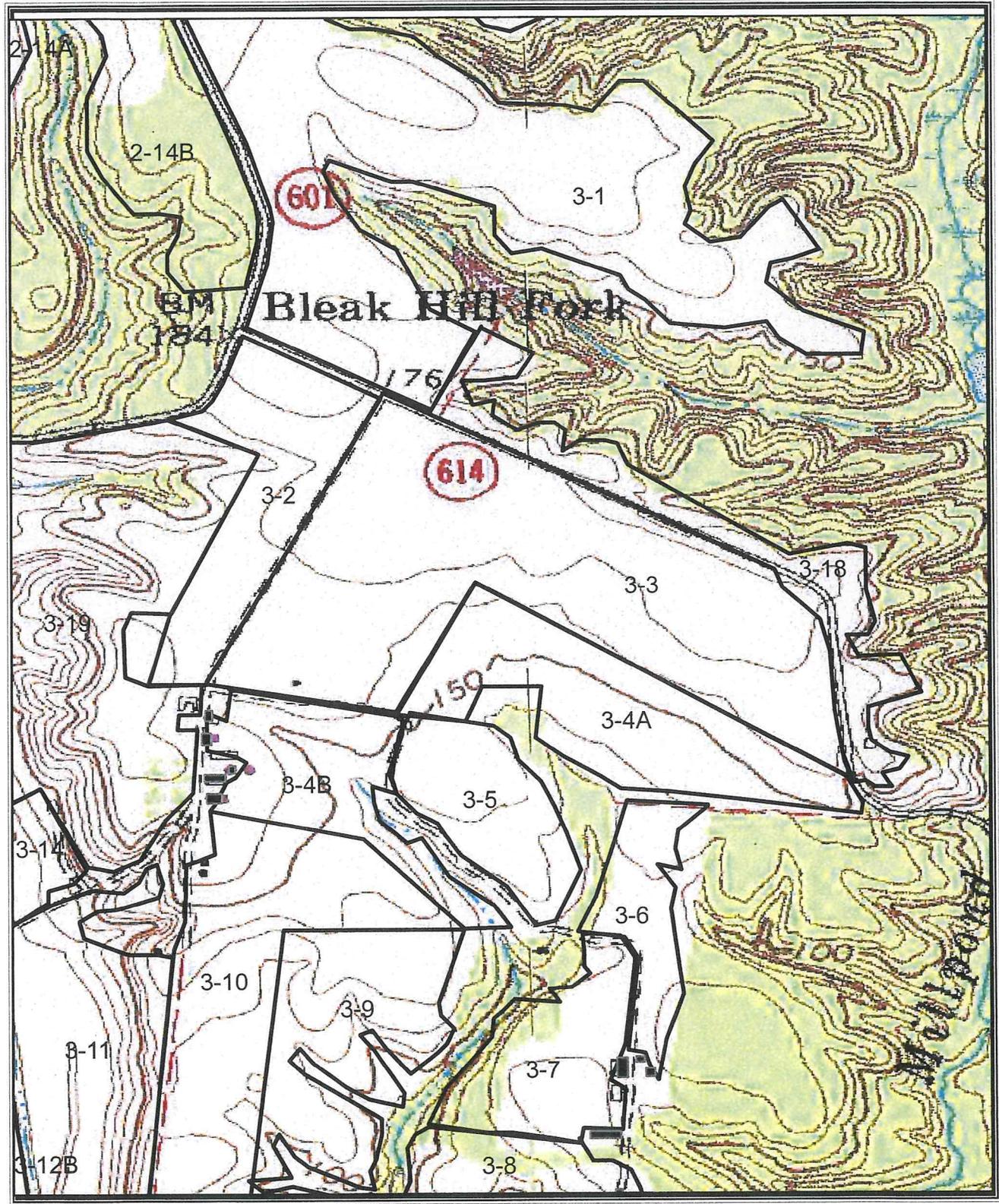
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SYNAGRO

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KW 3

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1 inch = 833.333333 feet

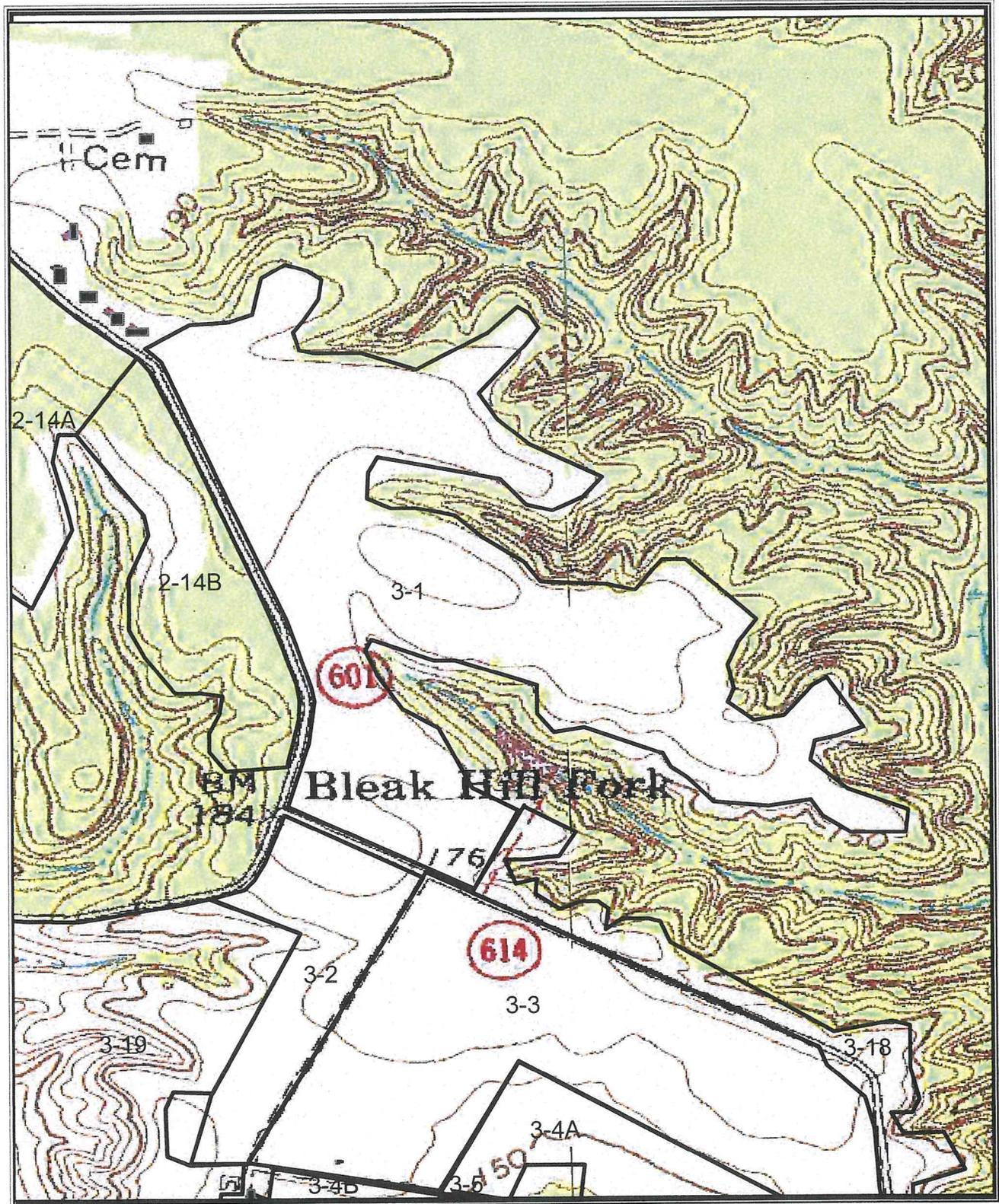
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SYNAGRO

J.N.Mills
KW 3

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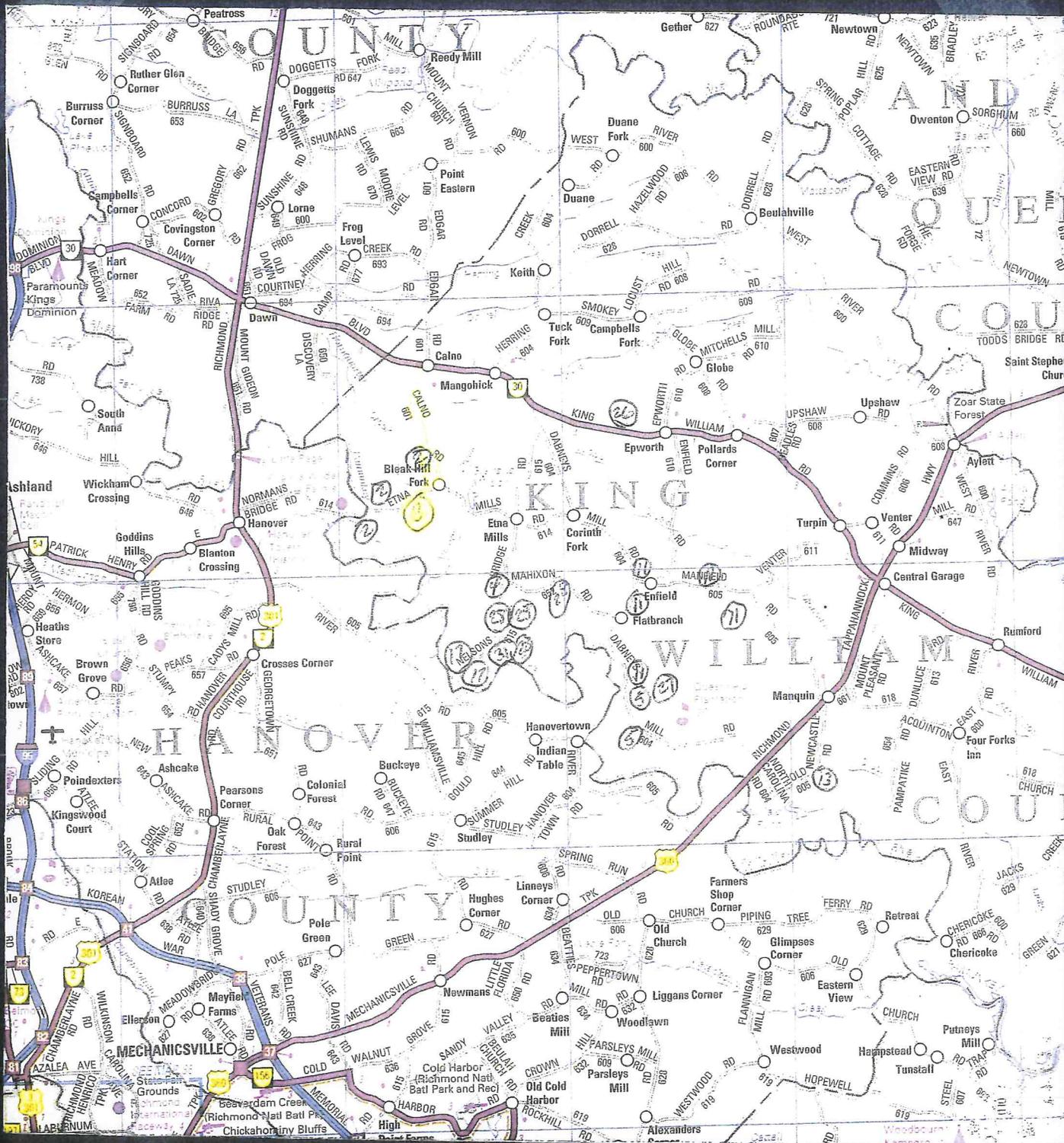
1 inch = 833.333333 feet

1:10,000



SYNAGRO

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SCALE 1:150,000

VICINITY MAP

